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PROCEEDINGS OF THE WORLD SCIENTIFIC MEETING ON THE BIOLOGY OF TUNAS AND RELATED SPECIES

ACTES DE LA RÉUNION SCIENTIFIQUE MONDIALE SUR LA BIOLOGIE DU THON ET DES ESPÈCES VOISINES

ACTAS DE LA REUNION CIENTIFICA MUNDIAL SOBRE BIOLOGIA DEL ATUN Y ESPECIES AFINES

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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION
Rome, 1964

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FIt/R11	(Fr)	Rapport du deuxième congrès mondial des engins de pêche, Londres, 25-31 mai 1963	1963
FIt/R11	(Es)	Informe del segundo congreso mundial de artes de pesca, Londres, 25-31 mayo 1963	1963
FI/R12		Informe de la primera reunión de la comisión asesora regional de pesca para el Atlántico sud-occidental (CARPAS)	1964
FIb/R13	(En)	Report of the FAO working party for rational utilization of tuna resources in the Atlantic ocean: first session, Fao, Rome, 25-30 October 1963	1963
FIb/R13	(Fr)	Rapport du groupe de travail FAO sur l'utilisation rationelle des ressources thonières de l'océan Atlantique: première session, FAO, Rome, 25-30 octobre 1963	1963
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FIb/R14	(En)	Report of the first session of the advisory committee on marine resources research, Rome, 28 January-2 February 1963	1963
FIb/R14	(Fr)	Rapport de la première session du comité consultatif de la recherche sur les ressources de la mer, Rome, 28 janvier-2 février 1963	1963
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FIe/R15		La industria pesquera en el Uruguay (distribución limitada)	1963
FIe/R16		Report to the Government of Saudi Arabia on the organization of fisheries operations on the Red Sea Coast	1964
FIt/R17	(En)	Report of the FAO fishing vessel stability meeting, Gdansk, Poland, 7-14 October 1963	1964
FIb/R18	(En)	Report of the first session of the FAO expert panel for the facilitation of tuna research, Rome, 8-12 June 1964	1964
FIb/R18	(Fr)	Rapport de la première session du groupe d'experts FAO chargé de faciliter la recherche sur le thon, Rome, 8-12 juin 1964	1964
FIb/R18	(Es)	Informe del primer período de sesiones del cuadro de expertos de la FAO para la facilitación de las investigaciones sobre el atún, Roma, 8-12 junio 1964	1964
FIt/R19	(En)	Report of the symposium on the significance of fundamental research in the utilization of fish, Husum, Federal Republic of Germany, 26-30 May 1964	1964
FIb/R6.4		Proceedings of the world scientific meeting on the biology of tunas and related species, Vol. 4 - bibliography Actes de la réunion scientifique mondiale sur la biologie du thon et des espèces voisines, Vol. 4 - bibliographie Actas de la reunión científica mundial sobre biología del atún y especies afines, Vol. 4 - bibliografía	1964

Unserialized reports dated earlier than January 1962 and earlier documents in this series are listed in the FAO Catalogue of Fisheries Publications and Documents (1963). Certain unserialized reports may be reprinted in this series as the unserialized versions go out of print.

Les rapports sans indication de série, portant une date antérieure à janvier 1962, ainsi que les documents plus anciens de la série figurent dans le Catalogue FAO des publications et documents sur les pêches (1963). Certains de ces rapports seront reproduits dans la présente série après épuisement de l'édition actuelle.

Los informes fuera de serie, de fecha anterior a enero de 1962 y los documentos anteriores de esta serie están incluídos en el Catálogo FAO de Publicaciones y Documentos de Pesca (1963). Es posible que algunos informes fuera de serie se reimpriman dentro de esta serie cuando su edición anterior queda agotada.

PROCEEDINGS OF THE WORLD SCIENTIFIC MEETING ON THE BIOLOGY OF TUNAS AND RELATED SPECIES

ACTES DE LA REUNION SCIENTIFIQUE MONDIALE SUR LA BIOLOGIE DU THON ET DES ESPECES VOISINES

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La Jolla, California, U.S.A., 2-14 July 1962

Compiled by	Compilé par la	Recopilación de la
FAO Fisheries Division, Biology Branch	Division des pêches de la FAO Sous-Division de la Biologie	Dirección de Pesca de la FAO Sub-Dirección de Biología

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Volume 4 - Bibliography
Bibliographie
Bibliografía

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION
Rome, 1964
22131

Preparation of this volume

This bibliography constitutes Volume 4 of *FAO Fisheries Report* No. 6, Proceedings of the World Scientific Meeting on *the Biology of Tunas* and Related Species. Volume 1 was the general report of the meeting held at La Jolla, California, U.S.A., from 2 to 14 July 1962, Volume 2 contained synopses of biological information on tuna species, and Volume 3 the methodological and experience papers contributed to the meeting. Volume 4 is a consolidated bibliography of publications relating to biology of, and fisheries for, tunas and related species. It contains:

a) references to all the published contributions to the La Jolla meeting;

b) all publications cited in the lists of references in the original versions of the above contributions. These lists were omitted from the versions as published in Volumes 2 and 3: they contain references to some general, and even ephemeral papers, but these have nevertheless all been included;

c) all references contained in the following earlier bibliographies:

Corwin, G.A., A bibliography of tunas. *Fish.Bull.,Sacramento*,
1930 (22):103 p.

Van Campen, W.G. and E.E. Hoven, Tunas and tuna fisheries of
1956 the world: an annotated bibliography, 1930-53. *Fish.Bull.,U.S.*, 57 (111):173-249

Van Campen, W.G. (Comp.), A bibliography of research on tunas
1962 for the years 1954-1956. *FAO Fish.Biol.tech.Pap.*, (23):22 p.

Bernabei, H. (Comp.), A bibliography of research on tunas for
1962 the years 1957-1962. *FAO Fish.Biol.tech.Pap.*, (16) Rev.1:50 p. (This included pertinent references from the "Current Bibliography for Aquatic Sciences and Fisheries")

Titles are listed in alphabetical order of authors' names and in chronological order under each author. An abbreviated style has been used in the presentation of all references: the short forms of periodical titles follow the rules given in the "World List of Scientific Periodicals", 3rd edition, London, 1952. This short form immediately follows the title of the paper, then volume, part numbers in parentheses, colon, pagination.

Titles of papers are given in the original language of the text except those the originals of which are in non-Roman alphabet - these are translated into English.

The Subject, Taxonomic and Geographic indexes follow in general the pattern of corresponding indexes in the *Current Bibliography for Aquatic Sciences and Fisheries* (CBASF). The *subject classification is a modification of that used to arrange* references in the Current Bibliography previously published in the *Journal du Conseil* of the *International Council* for the

Exploration of the Sea. The taxonomic index is arranged by main groups according to the FAO code published in Volume 3, Part 1 of the CBASF. Within each main group, generic and specific names are indexed; their names are in alphabetical order of genus. The scientific nomenclature agreed by the meeting has been adopted for the index (see page 2246). For the geographic index the FAO code for the broad sea areas is adopted.

In addition to the Editor, the following persons helped prepare this volume:

Mr. E.F. Akyüz
Dr. A. Ben-Tuvia
Mrs. L. Nunes-Ruivo
Miss F. Onofrii

Préparation du présent volume

La présente bibliographie constitue le Volume 4 de l'ouvrage FAO, Rapport sur les pêches N° 6, ou sont reproduits les Actes de la réunion scientifique mondiale sur la biologie du thon et des espèces voisines. Le volume 1 contenait le rapport général de la réunion tenue à La Jolla en Californie (Etats-Unis d'Amérique), du 2 au 14 juillet 1962; le volume 2 contenait les exposés synoptiques de données biologiques sur les diverses espèces de thon et le volume 3 les documents méthodologiques ainsi que les comptes-rendus d'expériences préparés en vue de la réunion. Le Volume 4 représente une bibliographie unifiée des publications relatives à la biologie du thon et des espèces voisines ainsi qu'à leurs lieux de pêche. Ce volume contient:

a) des références à tous les documents publiés à l'occasion de la réunion de La Jolla;

b) toutes les publications citées dans les listes de références jointes aux versions originales des documents sus-mentionnés; ces listes n'ont pas paru dans les versions publiées dans les volumes 2 et 3 : elles contiennent des références à certains documents de caractère général, et même à quelques documents ne présentant qu'un intérêt momentaire;

c) toutes les références figurant dans les bibliographies antérieures mentionnées ci-après:

Corwin, G.A., 1930 A bibliography of tunas. Fish.Bull.,Sacramento, (22):103 p.

Van Campen, W.G. et E.E. Hoven, 1956 Tunas and tuna fisheries of the world: an annotated bibliography, 1930-53. Fish.Bull.,U.S., 57 (111):173-249

Van Campen, W.G. (Comp.), 1962 A bibliography of research on tunas for the years 1954-1956. FAO Fish.Biol.tech.Pap., (23):22 p.

Bernabei, H. (Comp.), A bibliography of research on tunas for
1962 the years 1957-1962. FAO Fish.Biol.tech.Pap., (16) Rev. 1:50 p. (Cette bibliographie contenait des références pertinentes tirées de la "Current Bibliography for Aquatic Sciences and Fisheries")

Les titres sont énumérés par ordre alphabétique des noms d'auteurs et par ordre chronologique pour chaque auteur. Toutes les références ont été présentées sous une forme abrégée, selon les règles données dans la "World List of Scientific Periodicals" (Répertoire mondial des périodiques scientifiques), troisième édition, Londres, 1952. La référence abrégée suit immédiatement le titre du document; puis vient le numéro du volume, entre parenthèses le numéro de la partie, le signe deux points, l'indication des pages.

Les titres des documents sont donnés dans la langue originale du texte, sauf lorsqu'il s'agit d'originaux écrits en caractères non latins - dans ce cas, les titres sont traduits en anglais.

Les index par sujets, ainsi que les index taxonomiques et géographiques suivent en général la présentation des index correspondants de la "Current Bibliography for Aquatic Sciences and Fisheries (CBASF)". Pour la classification par sujets, on a utilisé, en la modifiant, la méthode adoptée pour disposer les références dans la Current Bibliography précédemment publiée dans le Journal du Conseil, du Conseil international pour l'exploration de la mer. L'index taxonomique est présenté par groupes principaux, conformément au Code de la FAO publié dans le Volume 3, partie 1, de la CBASF. Dans chaque groupe principal, les noms génériques et spécifiques reçoivent un numéro d'index; les genres sont énumérés par ordre alphabétique. La nomenclature scientifique adoptée par la réunion a été utilisée pour l'index (voir page 2246). Pour l'index géographique, on a adopté le code de la FAO relatif aux principales régions maritimes.

Outre l'éditeur, les personnes dont les noms suivent ont participé à la préparation de ce volume:

M. E.F. Akyüz
M. A. Ben-Tuvia
Mme L. Nunes-Ruivo
Mlle F. Onofrii

Preparación de este volumen

Esta bibliografía constituye el volumen 4 de FAO, Informes de Pesca, núm. 6, "Actas de la Reunión científica mundial sobre biología del atún y especies afines". El volumen 1 era el informe general de la reunión celebrada en La Jolla, California (EE.UU.), del 2 al 14 de julio de 1962; el volumen 2 contenía sinopsis de información biológica sobre las especies atuneras, y consistía el volumen 3 en los trabajos metodológicos y de investigación presentados a la reunión. El volumen 4 es una bibliografía global de las publicaciones relativas a la biología y pesca del atún y especies afines.

Contiene:

a) referencias a todas las comunicaciones sometidas a la reunión de La Jolla y publicadas posteriormente;

b) todas las publicaciones citadas en las listas de referencias de las versiones originales de las susodichas comunicaciones. Estas listas se omitieron en las versiones publicadas en los volumenes 2 y 3; contienen referencias a algunos trabajos generales e, incluso, esporádicos; ello no obstante todas han sido incluídas;

c) todas las referencias comprendidas en las siguientes bibliografías anteriores:

Corwin, G.A., A bibliography of tunas. *Fish.Bull.,Sacramento,*
1930 (22):103 p.

Van Campen, W.G. y E.E. Hoven, Tunas and tuna fisheries of the
1956 world: an annotated bibliography, 1930-53. *Fish. Bull.,U.S.,* 57 (111):173-249

Van Campen, W.G. (Comp.), A bibliography of research on tunas
1962 for the years 1954-1956. *FAO Fish.Biol.tech.Pap.,* (23):22 p.

Bernabei, H. (Comp.), A bibliography of research on tunas for
1962 the years 1957-1962. *FAO Fish.Biol.tech.Pap.,* (16) Rev. 1:50 p. (Esta bibliografía contenía referencias pertinentes de la "Current Bibliography for Aquatic Sciences and Fisheries")

Los títulos figuran por orden alfabético de autores, y por orden cronológico para cada autor. Para la presentación de todas las referencias se ha recurrido a formas abreviadas: para las abreviaturas de títulos de publicaciones se siguen las normas expuestas en la "World List of Scientific Periodicals" (Lista mundial de publicaciones periódicas), 3ª edición, Londres, 1952. La abreviatura va inmediatamente después del título del trabajo; siguen luego el volumen, las partes del mismo (entre paréntesis) y, después de dos puntos, la paginación.

Los títulos de los trabajos se dan en su idioma original, salvo que los textos originales no estén impresos en caracteres latinos, caso en el cual se han traducido al inglés.

Los índices por materias, taxonómico y geográfico se ajustan, en general, a los índices correspondientes de la "Current Bibliography for Aquatic Sciences and Fisheries (CBASF)". La clasificación por materias es una modificación de la utilizada para ordenar las referencias en la *Current Bibliography* publicada anteriormente en el *Journal du Conseil* del Consejo Internacional para la Exploración del Mar. El índice taxonómico se ha dispuesto por grupos principales, según la clave de la FAO publicada en el volumen 3, parte 1 de la CBASF. Dentro de cada grupo principal, los géneros y especies tienen su índice; sus nombres figuran por orden alfabético de géneros. Para el índice se ha adoptado la nomenclatura científica acordada por la reunión (véase página 2246). Con el índice geográfico se sigue la clave de la FAO para las grandes zonas marítimas.

Además del editor han colaborado en la preparación de este volumen las siguientes personas:

Sr. E.F. Akyüz
Dr. A. Ben-Tuvia
Sra L. Nunes-Ruivo
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FAO, Fisheries Division, 9-09001 M
Biology Branch (Comp.)
(1964)
FAO Fish. Rep., (6) Vol.4:1853-2272
Proceedings of the world scientific meeting on the biology of tunas and related species, La Jolla, California, U.S.A., 2-14 July 1962

Bibliography indexed subjectwise, taxonomically and geographically.

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PROCEEDINGS OF THE WORLD SCIENTIFIC MEETING ON THE BIOLOGY OF TUNAS AND RELATED SPECIES

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ACTAS DE LA REUNION CIENTIFICA MUNDIAL SOBRE BIOLOGIA DEL ATUN Y ESPECIES AFINES

La Jolla, California, U.S.A., 2-14 July 1962

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1972 1973 1976 1980
1981 1996 1997 2002
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The scientific nomenclature agreed by the meeting (see Vol. 1 p. 21 et seq.) has been adopted for the index, irrespective of the names used in the references. For the convenience of users, however, cross-references to synonyms have been inserted.

The nomenclature suggested by Lamonte, F.R. (Bull.Amer.Mus.nat.Hist., 107, art. 3: 321-58) on the genus *Makaira* has been adopted for the indexing of the species of this genus.

La nomenclature scientifique approuvée par la réunion (voir Vol. 1 p. 21 et seq.) a été adoptée pour les index, sans tenir compte des noms utilisés dans les références. Cependant, pour faciliter le travail des utilisateurs on a introduit des références croisées pour les synonymes.

La nomenclature suggérée par Lamonte, F.R. (Bull.Amer.Mus.nat.Hist., 107, art. 3: 321-58) pour le genre *Makaira* a été adoptée pour indexer les espèces de ce genre.

La nomenclatura científica aceptada por la reunión (véase Vol. 1 p. 21 et seq.) se ha adoptado por el índice, con independencia de los nombres usados en las referencias. Para la conveniencia de los lectores, se han insertado referencias cruzadas de sinónimos.

La nomenclatura sugerida por Lamonte, F.R. (Bull.Amer.Mus.nat.Hist., 107, art. 3: 321-58) para el género *Makaira* se ha adoptado para hacer el índice de especies de este género.

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0716 0722 0729 0731
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0830 0848 0857 0858
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0902 0906 0907 0909
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1038 1249 1261 1265
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1459 1517 1525 1553
1661 1669 1706 1762
1825 1826 1859 1971
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2100 2104 2111 2127
2128 2129 2146 2148
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2195 2196 2222 2231
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3462 3463 3464 3466
3468 3477 3484 3485
3487 3488 3500 3510
3560 3562 3563 3564
3586

235 Alabama 0561

Louisiana 0561

Mississippi 0561

Texas 0561 2634

236 USA, New England 0243 0244
0335 0854 1261 1707
1984 1985 2635 3394

Maine 0445

Massachusetts 0103 1600
2655 to 2658 2698
3375

Rhode I. 2836 2837

237 USA, Middle Atlantic States
0243 0244 0335 1261
1707

New Jersey 0710 0713 0714
0716 0717 0718

New York 0129 0431 0531
1982 1984 1985 1986
3035

238 USA, South Atlantic States
0243 0244 0335 0561

N. Carolina 1269 1453
2422 2586

Florida 0902 1644

240 Bermudas 0130 0133 0857
1850 1851 1852

300 LATIN AMERICA (S. and Central America) 1076

310 Central America (Mainland)
1755 2380 2401 2932

311 Mexico 0155 0160 0185
0186 0188 0248 0411
0422 0423 1248 1280
1430 1448 1716 1746
2931 2932 3006 3272
3281 3290 3403 3427
3562

312 Guatemala 1248 1280

313 El Salvador 1248 1280

314 Costa Rica 1090 to 1093
1248 1280 2377 2381
2383 2390 to 2393

315 Panama 0827 1090 to
1093 1248 1280 1758
2377 2381 2383 2390
to 2393 3289

316 Nicaragua 1280

317 Honduras 1280

320 Caribbean Islands 0641 0901
1249 1280 1762 1833
1834 2582

321 Bahamas 0640 1453 1490

Br. Caribbean Federation
0052 0131 0133 1280
3365 3384

322 Cuba 1080 1280 1832 2127
2128 2212 2240 2673
3310

323 Haiti 0655 1280 3270

324 Dominican Republic 3240
3245

325 Puerto Rico 0640 0649 1287

326 Guadeloupe 0934 1819

332 Venezuela 0677 1543 2425
3321 3383 3576

341 Ecuador 0621 1090 to
1093 2377 2380 2383
2390 to 2393 3381

Galapagos Is. 1661 3058
3324 3588

342 Peru 0045 0178 0564 0565

342 Peru (cont'd) 0566 0568
0570 1019 1159 1160
1161 1876 1988 1989
2431 to 2434 3331
3476

343 Chile 0178 0514 0733 1654
1659

351 Brazil 0552 0637 0730
0733 1547 1760 2083
3240 3245 3317

352 Uruguay 0513

353 Argentina 0715 0733

400 ASIA (excl. U.S.S.R.)

411 Syrian Arab Republic 0899

413 Israel 0158 0159 1471
2650 3302

421 W. Pakistan 2084 2085 2187

423 India 0357 0363 0488 0489
0493 0494 0542 1236
1238 1240 1241 1242
1244 1672 1976 2175
2206 2207 2568 2569
3531 3532

Laccadive and Andaman Is.
1214 1227 1230 1235
1246 2201 2784 to
2787

424 Ceylon 0352 0495 0553
0554 0555 1759 1856

Maldive 1066

431 Burma 0488 0495

432 Thailand 0206

433 Malaya 0329 1391 1733
2097

Singapore 0203

434 Celebes 0200

Indonesia 0192 0193 0205
0638 2098 2529 2918
3301

Molucca Is. 0194 0197 0198
0204

Sumatra 0199

435 West New Guinea (West Irian)
1858

436 Br. Borneo 2848 3392

437 Philippines 0093 0283 0590
0591 0650 0991 0992
0996 1651 1652 1653
1686 2208 2273 2315
2758 2805 2917 2996
to 2999 3010

438 Indochina 0354 0364 0365

441 Chinese People's Republic
0380 0728

444 Korea 1473 1828

451 Japan 0013 0014 0016 0051
0078 0195 0196 0208
0216 0367 to 0378
0381 0384 0386 0581
0593 0594 0646 0671
to 0675 0685 0787
to 0791 0856 1068
1074 1118 1123 1124
1125 1144 1154 1155
1156 1168 1179 1180
1187 to 1196 1198
to 1213 1252 1274
1278 1281 1299 to
1328 1340 1341 1343
1349 1352 1353 1372
1379 to 1383 1386
1387 1404 1407 1408
1411 1412 1444 1445
1461 1496 1500 1511
1775 to 1778 1780
1781 1782 1803 1809
1810 1811 1839 1840
1888 1922 1949 1951
1960 to 1965 2009
2011 2012 2014 2031
2034 to 2038 2042
to 2047 2051 2052
2064 2066 2165 2339

451 Japan (cont'd) 2356 2410
2508 2509 2514 2515
2517 2593 2648 2649
2675 2722 2730 2732
2735 2736 2739 2751
2752 2760 2765 2767
2834 2868 2869 2870
2872 2874 2894 2895
2899 2905 2907 2935
2936 2937 2944 2945
2946 2950 2951 2952
2958 2962 3081 3091
3092 3093 3097 3099
3107 to 3111 3119
3129 3135 3271 3304
3309 3310 3321 3324
3329 3330 3336 3337
3338 3344 to 3348
3352 3353 3355 to
3359 3366 3367 3370
3383 3395 3411 3434
3455 3483 3546 to
3557 3577 3580 3588

Japan, Hokkaido 0780 1163
1377 1394 1920 1921
2696

Japan, Honshu 1025 1405
1406 1413 to 1416
1478 1897 1993 3021

Japan, Shikoku 1348

Japan, Kyushu 3084

452 Ryukyu Is. 2411 2507 2729

453 Formosa 0698 to 0703
1353 1354 1930 1933
1934 1936 2731 3132
3396

454 Bonin Is. 3088

500 EUROPE 0119 0485 0599
1037

510 Scandinavia 1996 1997 2594

511 Denmark 0774 2112 3067

513 Iceland 0917

514 Norway 0273 0412 0413
0415 0417 0601 0602
0891 0896 0918 0924
to 0929 0936 0937
0938 1528 1548 1596
1685 1771 1816 2184
2185 2253 2703 2810
3162 3163 3165 to
3168 3191 3441 3444

516 Sweden 0348 1596 1603
1649

522 Belgium 1969 2659 2939

524 France0141 0286 0341 0533
0534 0535 0595 0763
0870 to 0876 0883
0910 1282 1390 1480
1532 1533 1538 1550
1584 1674 1732 1825
1826 2028 2103 2132
2164 2230 2231 2239
2292 2295 2297 2993
3175 3217 3258 3435
3447 to 3450 3512
3513 3514 3517 3519
3527 to 3530 3537
to 3540 3565

530 British Isles 0009 0276
0436 0458 0485 0486
0490 0491 0692 0923
1215 2105 2854 3037
3131

531 Ireland 1739

532 United Kingdom 0385 0490
1634 1635

533 England 0428 0429 0430
0914 1039 1040 2458
2791 3169 3418

Wales 3169

534 Scotland (Orkneys, Shetlands,
Hebrides) 3009 3169

541 Portugal 0023 0435 0482
0483 0559 0663 0752
0758 0855 1529 1980
2137 to 2143 2973
2974 2979 2980 2981
3171 3179 3182 3280

541 Azores 0678 1590 2205

Madeira 0144 1608 1609
1731 2017 2018 2582
3216

542 Spain 0022 0120 0152 0330
0500 0501 0504 0508
0511 0516 0517 0518
0536 0550 0551 0558
0676 0682 0767 0809
1601 1617 1974 1975
2215 2252 to 2260
2344 2619 2620 2621
3183 3184 3189 3194
to 3200 3202 3203
3204 3206 3208 3312
3360 3509

Balearic Is. 0536 1971

543 Italy 0328 0349 0478 0499
0665 0804 0814 to
0819 0826 1618 1882
1883 1999 2086 to
2090 2124 2131 2177
2363 2368 2562 2583
3170 3303 3442 3445
3525 3567 to 3570

Sardinia 0050 0123 0242
0351 1530 1594 1822
2089 2101 2102 2287
2308 2367

Sicily 0056 0057 0094
0220 0275 0804 1968
2182 2195 2196 2197
2331 2353 2450 2451
2561 2783 2832 3193

546 Corsica 2286

547 Malta and Gozo 0275

548 Gibraltar 0291 0509

551 Yugoslavia 0479 0704 0766
1479 2603 2985 2986

553 Greece 0079 0080 0081
1038 2583 2790

554 Bulgaria 0287 0820 2653

555 Roumanian People's Republic
0287 0800 1157 1764

555 Roumanian People's Republic
(cont'd) 2571

556 Turkey 0001 0021 0063
to 0069 0071 to
0074 0563 0631 0643
1181 1475 2024 2026

561 Germany 0100 1766

Federal Republic of Germany
1619 to 1622 1624
1767 1768 1770 1771
2251 2419 2806 2809
2811 2812 2814

571 Eastern Germany 2430

600 OCEANIA 0720 0722 0724
0732 1277

610 Australia 0187 0342 0521
0693 0854 1606
1629 1633 1743 1854
1859 2244 2283 2284
2285 2355 2486 2489
2490 2491 2647 3050
3315 3316 3364 3404
3406 3407 3412 to
3416

612 Western Australia 3033 3048
3049 3239

613 S. Australia 2487 3000
3405

614 Victoria 1740

615 N.S. Wales 0453 0454 1741
1742 2770 3011 3012
3300 3315

616 Queensland 1857 2029 3408

620 New Guinea Trust Territory
(Austr.) Papua 1858

621 N.E. New Guinea 1858

624 Papua 0612

630 New Zealand 0877 0892 2092
2114 2115 2169 2488

630 New Zealand (cont'd) 3050
3358

641 Fr. Oceania 0047 0086 1924
2317 3062 3063 3065

Society Is. 0460 0723 0990
2953 3139 3140 3246
3251 3254 3261 3268
3273 3306 3319

Tuamoto Archipelago 2317
3319

650 Line Is. 0125 1288 1290
1291 1293 1823

652 Palmyra I. 1910 to 1914

660 USA Hawaii 0222 0263 0264
0271 0384 0407 0619
0620 0734 0847 0851
0867 1265 1267 1288
to 1292 1294 1718
1722 1903 2065 2179
2322 2376 2380 2462
to 2465 2553 2554
2597 2665 2667 2776
2816 2861 3029 3032
3126 3128 3250 3266
3267 3323 3335 3342
3343 3362 3363 3369
3373

667 Midway I. 1903

671 Marianas Is. 1109 1116
1141 2426 2428 2429
2607 3070

672 Palau Is. 0003 1108 1115
1135 1137 1138 1373
1713 1715 2531 2610
2611 2615 2616 2618

673 Caroline Is. 0949 1113
1141 1142 1717 1900
to 1903 2609 2612
2613 2941 3096 3098
3332 3391

674 Marshall Is. 1006 1110
1113 1395 1675 1900
to 1903 1910 to
1914 2426 2428 2429
2530 2608 2942 2948
3014 3070 3249 3391

681 Br.Solomon Is. 2337

682 New Caledonia 0047 0049
1566 1567 1569 to
1575

683 New Hebrides 3279 3288

684 Fiji Is. 1467 1468 3346

Tonga Is. 2964

685 Samoa 1277 3262

Samoa (US) 2954 3353

686 Phoenix Is. 2523

687 Gilbert and Ellice Is. 2843

700 USSR 0164 0225 3332

710 Russian Federated S.S.R.
1164 3480

800 SPECIAL INTERCONTINENTAL
REGIONAL GROUPINGS

812 Southern Hemisphere 0907

814 Eastern Hemisphere 0449

817 Tropics 0449 0456 0962
1753 2704

820 Antarctic Continent 1632

863 Fr. Community 0047

A ATLANTIC OCEAN 0176 0215
0237 0740 0765 0834
1283 1284 1285 1534
1541 1545 1720 1769
1783 1830 2121 2165
2167 2238 2420 2573
2813 2820 3034 3173
3304 3311 3336 3379
3387 3390 3393 3398

A ATLANTIC OCEAN (cont'd)
3409 3431 3578 3580

AN **Atlantic N.** 0095 0096
0097 0697 0973a 1519
1537 1543 1552 1553
1555 1556 1756 1852
1982 1984 1985 2210
2416 2498 2499 2623
2636 2654 2928 2991
3241 3277 3297 3313
3327 3422

ANW Atlantic N.W. 0103 0130
0131 0172 to 0175
0243 0244 0335 0379
0431 0487 0667 0668
0711 0824 0830 0857
0858 1097 to 1101
1453 1600 1658 1669
1697 1699 1701 1703
1704 1705 1707 1708
1710 2058 2060 2232
2234 2235 2243 2477
2635 2637 2638 2639
2652 2686 2698 2836
2837 2969 3024 3025
3035 3075 3232 3235
3236 3263 3375 3394
3401 3535 3579 3581
3582

Gulf of St. Lawrence 0165

G. of Maine 0445 1878
to 1881 2236 2372

Chesapeake B. 1020

ANE Atlantic N.E. 0009 0119
0412 to 0415 0417
0428 0429 0430 0443
0444 0626 0627 0743
0776 0777 0923 0924
0926 0928 0929 1165
1166 1528 1532 1533
1551 1590 1625 1685
1739 1770 1771 1996
1997 2166 2184 2211
2243 2407 2409 2458
2804 2830 2939 2993
3169 3191 3328 3435
3514 3521

North Sea 0101 0348 0385
0541 0603 0610 0836
0927 0931 0963 1039
1492 1551 1603 1767
1769 1969 1978 2112
2251 2326 2327 2328
2419 2807 2808 3009
3068 3214 3418 3521

Baltic Sea 0610 1813 1814
2430 3214

English Channel 0538 1532
2791

Irish Sea 1634 1635 1739
2408 2492

Norwegian Sea 0927 0931
1685

AS **Atlantic S.** 0760 1706
1919 2120 2149 2150
2151 2157 2161 2631
2957 3157 3581

ASW Atlantic South West 0243
0244 0422 0487 0561
0637 0640 0649 0697
0730 0776 0777 1165
1166 1249 1269 1280
1450 1453 1456 1490
1597 1760 1890 to
1894 1952 1953 2373
2377 2381 2383 2390
to 2393 2422 2477
2632 3237 3240 3245
3317

G. of Mexico 0278 0279
0281 0411 1434 1450
2631 2633 2634 3022
3025

Caribbean Sea 0279 0281
0282 0677 0901 1543
1708 1833 1834 2234
2236 2686 3022 3247
3383 3384 3388 3511
3579 3581

ASE Atlantic S.E. 0023 0144
0150 0225 0230 0231
0292 to 0296 0330
0341 0350 0353 0382
0406 0420 0459 0469
0471 0474 0475 0482
0483 0501 0517 0529

ASE Atlantic S.E. (cont'd) 0585
0587 0596 0597 0598
0614 0663 0727 0752
0758 0792 0793 0794
0883 0900 0910 0948
1282 1474 1480 1532
1533 1564 1578 1579
1582 1592 1607 to
1610 1614 1660 1668
1670 1731 1769 1890
to 1894 1972 1973
1975 1980 2139 to
2144 2146 2148 2152
2154 2156 2158 2160
2252 to 2256 2258
2259 2260 2332 2380
2972 2973 2974 2976
to 2982 2993 3171
3184 3190 3197 3201
to 3205 3216 3227
3230 3233 3234 3295
3308 3312 3326 3360
3505 3509 3514

B. of Biscay 0022 0500
0517 0518 0533 0535
1564 1578 1579 1581
1582 1591 1974 2028
2247 2841 3505 3509

Mediterranean Sea 0056
0057 0058 0084 0145
0146 0158 0230 0231
0233 0480 0625 0665
0798 0976 0977 0978
1554 1583 1669 1769
1991 2086 2087 2167
2168 2182 2366 2583
2651 2813 2828 2829
2831 2832 3025 3170
3193 3431 3501 3518

Mediterranean Sea, Western
0085 0120 0220 0232
0234 0235 0236 0286
0504 0520 0524 0534
0536 0572 to 0576
0595 0613 0666 0696
0762 0767 0792 0804
0816 0870 to 0876
0965 0974 0975 1282
1592 1601 1671 1674
1732 1822 1882 1883
1968 2104 2219 2286
2287 2289 2290 2292
2294 2295 2297 2301
2302 2304 2305 2308
2331 2363 2367 3069
3175 3178 3186 3207
3209 3210 3211 3213
3214 3215 3287 3507
3509

Tyrrhenian Sea 0055 0056
0060 0478 0754 0817
0818 0819 1602 2087
2363 2456

Mediterranean Sea, Eastern
0021 0071 to 0074
0081 1471 2001 2057
2363

Aegean Sea 0081 0546 2482

Ionian Sea 0055 0081 2363
2456

Adriatic Sea 0190 0272
0446 0479 0543 0662
0766 1485 1843 1844
1845 1998 1999 2111
2363 2364 2455 2603
2604 3156

Sea of Marmara 0002 0021
0070 to 0074 0546
0547 2002 2024 2025
2026

Black Sea 0001 0021 0032
0070 to 0074 0287
0525 0546 0905 1157
1486 1487 1645 1734
1979 1994 2001 2002
2024 2025 2026 2580
2581 2653 2817 2987
2988 3161

Sea of Azov 0071 to
0074 1487 2580

G. of Guinea 0108 1666
3376

I INDOPACIFIC OCEAN 0004
0011 0013 0014 0016
0089 0090 0091 0210
0211 0224 0384 0388
0389 0397 0399 0401

I INDOPACIFIC OCEAN (cont'd)
0402 0426 0581 0609
0615 0684 0770 0834
0843 0850 0956 0957
0994 1344 1345 1346
1384 1385 1388 1396
to 1400 1408 1410
1411 1461 1655 1679
1680 1720 1783 1868
1896 1957 2007 2020
2021 2061 2066 2072
2077 to 2080 2228
2266 2334 2335 2360
2374 2375 2376 2388
2395 2500 2510 2520
2546 2566 2570 2593
2624 2627 2678 2693
2820 2844 2865 2866
2868 2877 2878 2880
2881 2898 2908 2909
2933 2952 3001 3005
3079 3123 3124 3141
3148 3242 3243 3248
3252 3257 3265 3266
3274 3278 3283 3285
3286 3291 3293 3294
3298 3314 3382 3420
3421

IN Pacific N. 0034 0134 0135
0136 0214 0260 0262
0284 0300 to 0309
0311 to 0322 0387
0394 0396 0398 0400
0403 0409 0422 0437
0577 0618 0628 0629
0630 0634 0635 0687
0688 0689 0807 0811
0831 0840 0878 to
0881 0946 0947 0950
0953 0995 1008 1011
1025 1052 1085 1086
1118 1147 1149 1150
1151 1177 1178 1218
1219 1260 1265 1276
1300 to 1309 1311
1313 1314 1316 1319
1320 1322 1323 1325
1326 1328 1342 1353
1354 1371 1372 1376
1377 1379 1380 1382
1386 1387 1394 1404
1405 1406 1413 to
1416 1431 1496 1500
1503 1505 1511 1512
1745 1746 1781 1800
1802 1839 1840 1920
1921 1930 1955 1959
1977 2038 2039 2042
to 2046 2067 2069
2073 2074 2119 2170
to 2173 2192 2193
2194 2222 2250 2341
2356 to 2359 2369
2370 2371 2376 2382
2384 2404 2405 2416
2447 2557 2577 2676
2677 2680 2684 2685
2687 2688 2689 2691
2692 2694 2752 2822
2869 2874 2883 2888
2889 2891 2897 2903
2904 2907 2914 2936
2937 3006 3021 3092
3093 3097 3118 3125
3129 3235 3236 3253
3282 3292 3322 3399
3400 3417 3436

Japan Sea 1168 1375 1376
1432 1470 1695 1696
1897 2032 2033 2222
2754 2888

Sea of Okhotsk 1164 2759

Bering Sea 2759

G. of Alaska 3478

IS Tropical Indopacific 0036
0037 0038 0047 0048
0125 0187 0729 0953
1058 1084 1088 2911
2929 2962 3047 3324

ISW Indian Ocean 0104 0105
0218 0228 0290 0327
0363 0448 0455 0498
0542 0706 to 0710
0721 0725 0726 0801
0802 1024 1066 1170
1223 1225 1226 1228
1229 1231 1232 1233
1239 1240 1241 1243
to 1247 1297 1368
1464 1465 1506 1507
1626 1790 1791 1792
1794 1795 1797 1798
1846 1898 1917 1923
1967 2075 2284 2567
2568 2590 2591 2602

ISW Indian Ocean (cont'd) 2678
2842 2845 2846 2847
2910 2913 3036 3051
to 3055 3120 3122
3141 3239 3275 3284
3301 3305 3318 3339
3348 3380

Red Sea 1457 1459 2314
2650

G. of Aden 3275 3305

G. of Oman 0168

Arabian Sea 1214 1224
1227 1230 1234 1235
1238 1246 1247 1905
2175 2200 to 2204
2784 to 2787

B. of Bengal 1906 1907
2084 2085

ISEW Indopacific, Central 0040
0049 0086 0087 0193
0194 0204 0205 0261
0263 0264 0283 0329
0358 0448 0460 0498
0581 0612 0619 0620
0623 0638 0650 0698
to 0703 0719 0720
0722 0723 0724 0732
0734 0847 0851 0852
0853 0856 0867 0943
0949 0950 0984 0990
1012 to 1016 1026
1033 1068 1073 1074
1102 1108 1109 1110
1112 1113 1115 1120
1135 1137 to 1142
1144 1168 1171 1172
1174 to 1177 1179
1180 1186 to 1191
1265 1267 1274 1275
1277 1278 1288 1290
to 1295 1299 to
1316 1318 to 1328
1343 1350 1354 1371
1380 to 1383 1387
1395 1418 to 1422
1461 1462 1463 1466
to 1469 1496 1498
1504 1505 1507 1512
1566 1567 1569 to
1575 1633 1637 1651
1652 1653 1689 1690
1691 1711 1713 1715
1717 1718 1719 1722
1723 1724 1733 1744
1788 1789 1823 1860
1866 1867 1870 to
1873 1874 1900 to
1904 1908 1910 to
1914 1916 1918 1924
1925 1933 1934 1936
1950 2005 2048 2049
2065 2068 2073 2098
2218 2244 2284 2317
2318 2322 2337 2376
2380 2389 2394 2426
2428 2429 2462 to
2465 2503 2513 2521
2522 2523 2529 2530
2531 2548 2553 2554
2592 2597 2602 2607
to 2613 2615 to
2618 2663 to 2667
2699 2700 2758 2765
2776 2816 2843 2882
2918 2941 2942 2946
2948 2950 2953 2954
2964 2997 2998 2999
3002 3014 3015 3026
3032 3062 3063 3070
3080 3084 3088 3089
3090 3096 to 3100
3102 3115 3116 3126
3128 3139 3140 3152
3153 3246 3249 3250
3251 3254 3255 3261
3262 3264 3266 3267
3268 3273 3306 3307
3319 3323 3332 to
3335 3341 3342 3343
3350 3358 3362 3363
3369 3373 3374 3380
3391 3392 3404 3581

S. China Sea 1356 2222

E. China Sea 0795 2222

Yellow Sea 2222

Inland Sea of Japan 1163
2222 2888

Philippine Sea 0590 0591
0992 1122 1355 1686
2315 2690 2758 2997
2998 2999

ISEW Celebes Sea 1027 1029
1929

Java Sea 0530 0540

Molucca Sea 0194 0197
0198 0204

Banda Sea 1114 1502

Timor Sea 1114

Arafura Sea 1114

Solomon Sea 0075

Coral Sea 0612 0764 1167
1566 1567 1569 1570
1571 1573 1574 1575

ISE Pacific, S.E. 0040 0114
0155 0160 0185 0186
0188 0189 0212 0213
0241 0254 to 0259
0320 to 0323 0325
0361 0391 0411 0422
0450 0451 0564 0565
0566 0568 0569 0570
0852 0853 0893 0983
0984 0986 1019 1033
1060 1159 to 1162
1248 1259 1270 1271
1272 1276 1280 1286
1351 1448 1452 1454
1455 1647 1654 1659
1662 1668 1687 1716
1746 1755 1989 2054
2056 2083 2095 2096
2104 2118 2216 2248
2262 2263 2373 2380
2382 2384 2386 2387
2390 to 2394 2398
to 2401 2431 2432
2433 2518 2524 2525
2526 2556 2742 2743
2793 2924 2932 3058
3064 3065 3237 3250
3260 3281 3290 3331
3340 3361 3400 3510

G. of California 0894 1716
1746 2249

G. of Panama 0827 1990

P POLAR SEAS

PS Southern Ocean 0962 1632
3077 3078 3115

PSW Southern Ocean, W. 0201
0288 0289 0290 0292
0293 0327 0406 0526
0527 0529 0828 1065
2110 2402 2588 2589
2591 2741 to 2744
2747 3160

PSE Southern Ocean, E. 0453
0454 0877 2244 2284
2686 3000 3239 3300
3315 3404 3405 3579
3581

Great Australian Bight 2244

Tasman Sea 0764

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